

Jack Stellern December 2001



#### General

- Mixed use facility with office, laboratory, shops, auditorium, cafeteria and support spaces
- Approximately 240,000 gsf that consists of a multi-story office and lab building





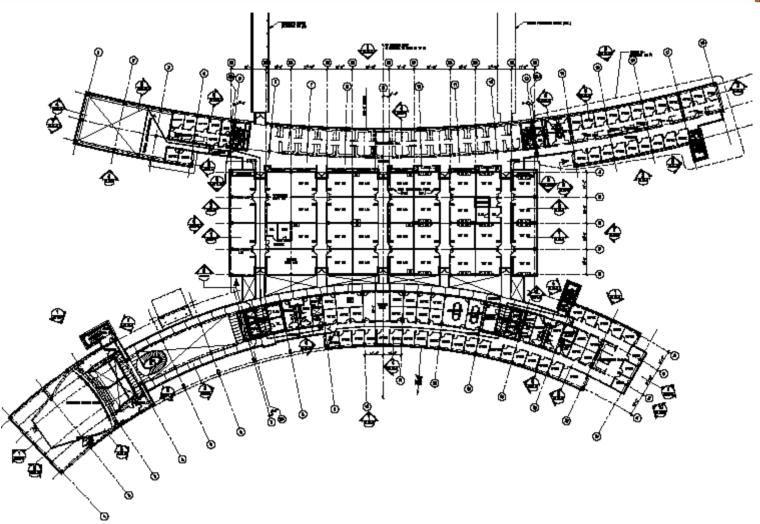




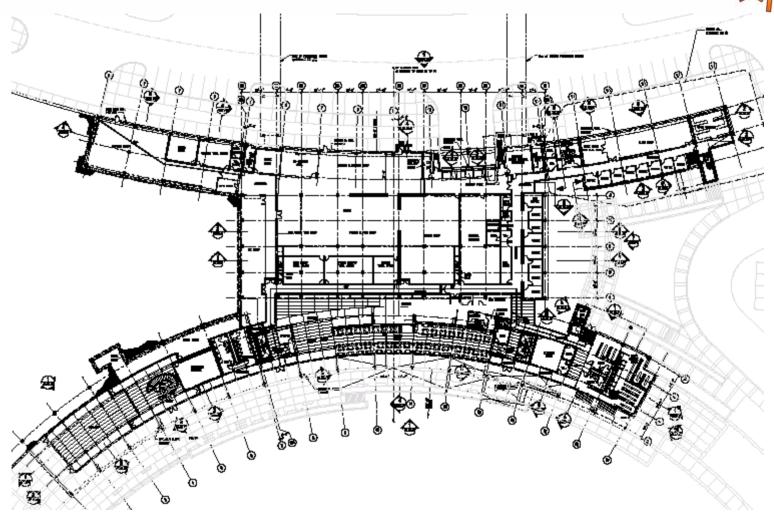














#### Site and Utilities

- Current site is rough graded within several feet of final elevation
- Sidewalks, plazas, loading docks, parking areas and site lighting will be included
- CLO utilities will be extended underground from the central SNS utilities



#### Architectural

- Exterior is insulated metal panels with a window system, the roof is built-up asphalt roofing over concrete and metal deck
- There are standard finishes in the offices, carpeting and painted dry wall on metal studs
- The laboratories have chemical resistant floors, built in casework, safety showers and fume hoods



#### Structural

- Building framing system is structural steel, the floor slabs will be suspended concrete slabs
- A geofoam fill is required around some of the foundation walls to reduce loads and settling



#### Mechanical

- Chilled water for HVAC will be provided by the SNS central utility building and will be extended from the existing site distribution system
- A gas fired boiler will be included for heating water
- A laboratory exhaust system will provide constant fume hood face velocity



#### Electrical

- 13.8kV power will be pulled from the main site substations to the service transformers
- Diesel generator and UPS will provide emergency power
- Building grounding and lightning protection will be included



### **Construction Options**

- 1. Build the bridge to the target building
- 2. Complete the 2<sup>nd</sup> floor labs
- 3. Complete the cafeteria and B1 level
- 4. Complete the 5<sup>th</sup> floor conference room
- 5. Complete the auditorium
- 6. Complete the 3<sup>rd</sup> floor labs and offices



## **Activity**

Design Complete

Bid and Award

Construction

## **Schedule**

Dec '01

Jan '02 – Apr '02

May '02 - Oct '03



Forecasted	Forecasted	
Start	Finish	FY02 FY03 FY04 O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S
TGT		Target Bldg & Instrument Hall
	4000000	
08SEP00A	18SEP02	Substructures Construction
01NOV01A	27JUN02	Target Fac Bid & Award General Construction
26JUL02	05AUG04	Target Fac General Construction
06AUG04		BOD - Target Facilities
CLO	·	Central Lab & Office Bldg.
03DEC01	31DEC01	Title II - CLO Re-Design
15JAN02	16JUL02	CLO - Bid & Award General Construction
31JUL02	30MAR04	CLO - General Construction
30JUN04		BOD - Central Lab & Office Bld
CNMS		Center for Nanophase Materials Sciences
01FEB02	31DEC02	Title I & II - CNMS Design
02SEP02	31OCT02	CNMS - Bid & Award Substructures
01NOV02	30MAY03	CNMS - Substructure Construction
01JAN03	31MAR03	CNMS - Bid & Award General Construction
01APR03	30JUL04	CNMS - General Construction